

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,189	04/19/2004	James F. Stevens	X-0137	2337
38393 CHEVRON SE	7590 06/14/2007 ERVICES COMPANY	EXAMINER		
LAW, INTELI	LECTUAL PROPERTY	LANGEL, WAYNE A		
P.O. BOX 4368 HOUSTON, T	=		ART UNIT	PAPER NUMBER
		1754		
			MAIL DATE	DELIVERY MODE
			06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s	3)				
Office Action Summary		10/827,189	STEVENS E	ET AL.				
		Examiner	Art Unit					
		Wayne Langel	1754					
	The MAILING DATE of this communication app	ears on the cover	heet with the corresponder	ice address				
	Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,							
WHIC - Exter after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period we tre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COI 36(a). In no event, howev will apply and will expire Si cause the application to	MMUNICATION. er, may a reply be timely filed X (6) MONTHS from the mailing date of the come ABANDONED (35 U.S.C. § 1)	of this communication. 33).				
Status		•						
1)⊠	Responsive to communication(s) filed on 01 Ju	<u>ıne 2007</u> .	`					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.						
3)) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠	Claim(s) 1-37 is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>15-17 and 28-30</u> is/are allowed.							
6)⊠	S)⊠ Claim(s) <u>1-14,18-27 and 31-37</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9)[The specification is objected to by the Examine	r.						
•—	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119			,				
12)	Acknowledgment is made of a claim for foreign	priority under 35 l	J.S.C. § 119(a)-(d) or (f).					
•	☐ All b)☐ Some * c)☐ None of:	,	(4)					
,	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
				·				
Attachmen	t(s)							
	e of References Cited (PTO-892)	4)	aterview Summary (PTO-413)					
2) D Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	P	aper No(s)/Mail Date					
	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	· —	otice of Informal Patent Application ther:	л				

Application/Control Number: 10/827,189

Art Unit: 1754

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 and 37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Stevens '329. No distinction is seen between the process disclosed by Stevens '329, and that recited in claims 1-14 and 37. Applicants' argument, that the present invention includes the step of "hydrating of the calcinated carbon dioxide material", is not convincing. Claims 1 and 37 recite hydrating the calcinated carbon dioxide fixing material with steam "when the monitored amount of hydrogen or the at least one impurity in the reformate is at a predetermined level". The hydrogen and impurities in the reformate of Stevens '329 are considered to be "monitored" and not to be at the "predetermined level", such that these claims would not require the hydration step. There would be no difference between the process of Stevens '329 and that recited in claims 1-14 and 37 when there is no hydration step.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 10/827,189

Art Unit: 1754

Claims 1-14, 18-27 and 31-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1-14 and 37, it is indefinite as to when the amount of hydrogen or the at least one impurity in the reformate would be at the "predetermined level", since the predetermined level would be in the mind of the operator of the process and not readily discernible. Claims 31-36 are indefinite since it is not clear as to where the end of the claims are, since claim 31 does not end with a period (.). In claim 36, last line, it is indefinite as to what "the same" refers to. In claims 18-27, it is indefinite as to whether the generation of hydrogen is required, since the preamble of claim 18 recites "a method for generating hydrogen", but the positive process steps recited in the main body of the claim would not result in the generation of hydrogen.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 18-27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not enable one to produce hydrogen by carrying out the steps recited in claim 18.

Application/Control Number: 10/827,189

Art Unit: 1754

Claims 15-17 and 28-30 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel

Primary Examiner

Art Unit 1754